Title (en)

Projector with a plurality of light escape ports improving the homogeneity of the illuminated surface

Title (de)

Eine Mehrzahl von Lichtausgängen enthaltender Scheinwerfer zum Beleuchten einer Oberfläche mit verbesserter Gleichmässigkeit

Title (fr)

Projecteur multi-hublots améliorant l'homogénéité de la plage éclairée

Publication

EP 0767339 B1 20030409 (FR)

Application

EP 96402106 A 19961003

Priority

FR 9511719 A 19951005

Abstract (en)

[origin: EP0767339A1] A centrally mounted light source (3) shines directly downwards (L5, 0) through a two-lens (5, 6) optical condenser (4). Similar condensers direct light beams (L1,... L3, ...) along the horizontal arms of the cruciform casing (1) to inclined mirrors (8), reflecting light downwards on axes (A) which intersect the vertical axis (0) on the plane (12) to be illuminated. Radiated heat, penetrating the mirrors, is absorbed by backing plates (9). Reflected light passes through ports (11) in the casing fitted with two dioptric systems one (dl) correcting optical aberrations, the other (d2) providing multiple spherical or prismatic surface matrices, designed to produce homogeneous illumination of the target plane. Variants have duplicate cruciform beams, or intermediate mirror systems diverting some light through additional ports.

IPC 1-7

F21S 8/00

IPC 8 full level

F21S 8/00 (2006.01); **F21V 5/04** (2006.01)

CPC (source: EP US)

F21V 5/04 (2013.01 - EP US); F21W 2131/205 (2013.01 - EP US); Y10S 362/804 (2013.01 - EP)

Cited by

EP1526327A1; FR2861186A1; US7261429B2

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EP 0767339 A1 19970409; **EP 0767339 B1 20030409**; DE 69627264 D1 20030515; DE 69627264 T2 20040325; ES 2196131 T3 20031216; FR 2739676 A1 19970411; FR 2739676 B1 19971114; US 5765943 A 19980616

DOCDB simple family (application)

EP 96402106 A 19961003; DE 69627264 T 19961003; ES 96402106 T 19961003; FR 9511719 A 19951005; US 72555896 A 19961003